

Name \_\_\_\_\_

# Study Guide

Use the lab book, notes, and hard cover books to help you prepare these questions for Circulatory and Respiratory Test.

1. Study the 2 diagrams: heart and respiratory. No word bank will be given.	2. Name strengths/limitations to the bell jar model of breathing <u>Strengths</u> • Diaphragm • 2 Lungs • No nasal passage <u>Limitations</u> • No pleural membrane • No pleural cavity	3. Name strengths/limitations to the syringe model of breathing <u>Strengths</u> • Diaphragm moves down when inhaled • Water surrounds lungs <u>Limitations</u> • 1 lung • No alveoli • No bronchi	4. What is vital lung capacity? Vital = amount of air you can exhale.
5. What are the pumps of the heart called? Right Ventricle Left Ventricle	6. Where does blood go after the aorta? Blood goes to the rest of the body through systemic circulation (or the systemic arteries).	7. What is the name of the smallest blood vessel? capillaries	8. What is the name of the only vein that carries more oxygen than CO <sub>2</sub> ? pulmonary vein
9. What is the formula for cellular respiration? Explain. $O_2 + \text{Nutrients} = \text{Heat} + \text{Energy}$ $CO_2 + H_2O + \text{Energy}$	10. What do we get from digested food (glucose)? Heat Energy	11. What is the name of the only artery that carries carbon dioxide? Pulmonary Artery	12. What are arteries? Arteries • carry blood away from heart. • Thick cell walls